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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/661,596	09/15/2003	Oji Kuno	117167	8066	
25944	7590 11/29/2005		EXAMINER		
OLIFF & BERRIDGE, PLC			NGUYEN, CAM N		
	P.O. BOX 19928 ALEXANDRIA, VA 22320			PAPER NUMBER	
/ ILE/// II (DIG	, 22320		1754	1754	

DATE MAILED: 11/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/661,596	KUNO, OJI				
Office Action Summary	Examiner	Art Unit				
	Cam N. Nguyen	1754				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. O (35 U.S.C. § 133)				
Status						
1) Responsive to communication(s) filed on 15 Se	1) Responsive to communication(s) filed on <u>15 September 2003</u> .					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims		•				
4) ⊠ Claim(s) <u>1-15</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-3,6-10,13 and 14</u> is/are rejected. 7) ⊠ Claim(s) <u>4,5,11,12 and 15</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/or	n from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 15 September 2003 is/a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage				
,						
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>originally filed</u>. 	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

Claim Objections

1. Claims 1& 4 are objected to because of the following informalities: In line 1, it is suggested applicants replace the phrase "characterized in that" with another phrase.

Appropriate correction is required.

Claim Rejections - 35 USC § 102(e)

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-3, 6-10, & 13-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Takeshima et al., "hereinafter Takeshima", (US Pat. 6,956,008 B2).

Takeshima discloses a storage-reduction type NOx purifying catalyst, comprsing: a monolithic substrate having formed thereon a coat layer containing a cerium-zirconium composite oxide and a cerium-free oxide, a noble metal and a NOx storing material supported on said coat layer, wherein the cerium content of said cerium-zirconium composite oxide is less than 30 mol%, based on the molar number of metal atoms contained (see col. 11- col. 12, claim 1). The cerium-zirconium composite oxide

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further comprises at least one metal (M) selected from rare earth metals (excluding cerium) (see col. 12, claim 4 & see also claim 5). The M/Ce molar ratio if from 0.1 to 10 (see col. 12, claim 6). Takeshima also discloses the claimed method of synthesizing the cerium-zirconium composite oxide (see col. 6, In 1-13).

It is considered the claimed cerium and zirconium are met since the disclosed molar ratios of Ce and Zr are falling within the claimed molar ratio ranges.

With respect to the claimed "isoelectric point" limitation, it is considered inherent that the disclosed cerium-zirconium composite metal oxide would possess the same isoelectric point because it is the same composite oxide.

Citations

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. All references are cited for related art. See PTO-892 Form prepared attached.

Conclusion

- 5. Claims 1-15 are pending. Claims 1-3, 6-10, & 13-14 are rejected. Claims 1, 4-5, 11-12, & 15 are objected. No claims are allowed.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Primary Examiner Cam N Nguyen, whose telephone

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number is 571-272-1357. The examiner can normally be reached on M, W, R, & F, 9:00 AM - 6:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nguyen/cnn

November 21, 2005

PRIMARY EXAMINE

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